

# Re: Secure data in SQL Server 2005 Mobile Edition

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*Source:*

<http://www.tech-archive.net/Archive/SQL-Server/microsoft.public.sqlserver.ce/2007-07/msg00090.html>

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- *From:* AimlessZombie <[AimlessZombie@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:AimlessZombie@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Thu, 26 Jul 2007 18:22:00 -0700
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Hi,

We have decided to go ahead with encrypted the entire database for now, thus I am trying to encrypt a database on SQL Server 2005 on a desktop and replicate this database on SQL Server Mobile Edition on a mobile device.

I followed the "How to: Secure a Database (SQL Server Management Studio)" topic in the SQL Server 2005 Mobile Edition Books Online to set a password for my database connection string and checked the encrypt option. But when I tried to access the database on the mobile device by opening a sqlceconnection, I got the following error:

The specified password does not match the database password.

I have ensured that my connection string is correct with the correct data source and correct password. I have even tried changing passwords but I still got the same error.

1. Is this the correct way of encrypting a database? Am I doing wrong or missing anything?
2. What is the encryption algorithm used by SQL Server Management Studio when the encrypt option is chosen?

Thanks for the help.

"Ginny Caughey [MVP]" wrote:

The size is the same whether it's encrypted or not. I used the Northwind database for my tests but the larger AdventureWorks one might also make an interesting test.

I think the best way to get answers for your specific case would be to build encrypted and non-encrypted databases with the schema you need and run a few simple tests for yourself. Frankly the reason I didn't spend more time doing thorough testing was that I think if you need encryption, then you need it and whatever the perf hit, well that's the price you pay. Still I was

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pleased to find the hit was a small one in my tests.

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Ginny

"AimlessZombie" <AimlessZombie@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:2B849C1A-0785-4C8B-BD52-9DFDB4359A80@xxxxxxxxxxxxxxxxxxxxx](mailto:news:2B849C1A-0785-4C8B-BD52-9DFDB4359A80@xxxxxxxxxxxxxxxxxxxxx)

What about the database size?

"Ginny Caughey [MVP]" wrote:

I didn't test it with different schemas. The hit on the device was between 8-10% for most operations. On the desktop it was barely measurable.

--

Ginny

"AimlessZombie" <AimlessZombie@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:428B5E6D-B41C-428A-BC94-9BF040568FDE@xxxxxxxxxxxxxxxxxxxxx](mailto:news:428B5E6D-B41C-428A-BC94-9BF040568FDE@xxxxxxxxxxxxxxxxxxxxx)

Thanks for your reply.

Not exactly that I wanted a more complicated encryption, but i was worried about the performance hit for encrypting the whole database.

Can I ask what is the size of the database you tested with? Also, would the performance hit be affected by the database schema?

"Ginny Caughey [MVP]" wrote:

Encryption in SQL Mobile is at the database level only. In my testing the performance hit for using

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encryption is quite low, and  
using an  
encrypted  
database is as easy as  
providing a password in the  
connection string,  
so  
I'm  
not sure why you'd want  
something more  
complicated than that.

--  
Ginny

"AimlessZombie"  
<AimlessZombie@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in  
message  
[news:721B8943-84FA-41DF-8AFB-633C0A85F1DA@xxxxxxxxxxxxxxxxxxxx](mailto:news:721B8943-84FA-41DF-8AFB-633C0A85F1DA@xxxxxxxxxxxxxxxxxxxx)

I understand  
that it is  
possible to  
encrypt a  
database in  
SQL Server  
2005  
Mobile  
Edition. But  
I do not  
want to  
encrypt the  
entire  
database.  
Instead  
I  
just want to  
encrypt  
only  
selected  
data in the  
database.

Can this be  
done in  
Mobile  
Edition? If  
yes, how to  
do it and is

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there  
any  
reference  
sites?

Many  
thanks.